

AMENDMENTS TO THE CLAIMS

1-15. (Canceled)

16. (Withdrawn) An alkaline battery comprising a positive mixture comprising at least one selected from manganese dioxide and a nickel oxide as a positive active material and a negative mixture comprising a negative active material,

wherein the positive mixture comprises an alkaline electrolytic solution comprising potassium hydroxide,

an amount of water comprised in the positive mixture is 8.4 to 10wt% with respect to a total weight of the positive mixture including the alkaline electrolytic solution, and

a total amount of water in the battery is 0.23 to 0.275 g based on 1 g of the positive active material.

17. (Withdrawn) The alkaline battery according to claim 16, wherein a density of the positive mixture before assembly of the battery is 3.2 to 3.35g/cm³.

18. (Withdrawn) The alkaline battery according to claim 16, wherein a concentration of potassium hydroxide of the alkaline electrolytic solution comprised in the positive mixture before assembly of the battery is 40wt% or more.

19. (Canceled)

20. (Withdrawn) The alkaline battery according to claim 16, wherein a concentration of potassium hydroxide obtained from a potassium amount and a water amount of the alkaline electrolytic solution is 35 to 39.5wt%.

21. (Withdrawn) The alkaline battery according to claim 16, wherein the alkaline electrolytic solution comprises a zinc compound.

22. (Currently amended) An alkaline battery comprising a positive mixture molded in a ring shape comprising at least one selected from manganese dioxide and a nickel oxide as a positive active material and a negative mixture comprising a negative active material,

wherein the positive mixture comprises an alkaline electrolytic solution comprising potassium hydroxide,

an amount of water comprised in the positive mixture is 8.4 to 10wt% with respect to a total weight of the positive mixture including the alkaline electrolytic solution, and

the negative active material is zinc alloy powder, and a ratio of the zinc alloy powder that passes through a 200-mesh sieve is 4 to 40wt% with respect to a total weight of the zinc alloy powder.

23. (Original) The alkaline battery according to claim 22, wherein the zinc alloy powder comprises at least one selected from indium, bismuth, and aluminum.

24. (Original) The alkaline battery according to claim 23, wherein contents of the at least one selected from indium, bismuth, and aluminum comprised in the zinc alloy powder are 0.03 to 0.07wt%, 0.007 to 0.025wt%, and 0.001 to 0.004wt%, respectively.

25. (Withdrawn) A method for producing an alkaline battery, using a positive mixture comprising at least one selected from manganese dioxide and a nickel oxide as a positive active material and an alkaline electrolytic solution comprising potassium hydroxide,

wherein an amount of potassium hydroxide comprised in the positive mixture used for assembly of the battery is 2.4 to 4wt% with respect to a total weight of the positive mixture including the alkaline electrolytic solution, and

an amount of water comprised in the positive mixture after assembly of the battery is 8.4 to 10wt% with respect to a total weight of the positive mixture including the alkaline electrolytic solution.

26. (Withdrawn) The method for producing an alkaline battery according to claim 25, wherein a concentration of potassium hydroxide of the alkaline electrolytic solution comprised in the positive mixture before assembly of the battery is 40wt% or more.

27. (Withdrawn) The method for producing an alkaline battery according to claim 25, wherein a concentration of potassium hydroxide obtained from a potassium amount and a water amount of the alkaline electrolytic solution comprised in the positive mixture after assembly of the battery is 35 to 39.5wt%.

28. (Withdrawn) The method for producing an alkaline battery according to claim 25, wherein a total amount of water in the battery is 0.23 to 0.275 g based on 1 g of the positive active material.

29. (Withdrawn) The method for producing an alkaline battery according to claim 25, wherein the positive mixture is formed at a temperature in a range of 35°C to 70°C.

30-34. (Canceled)

35. (Withdrawn) An alkaline battery produced by sealing in an outer package body: a positive mixture comprising at least one selected from a manganese dioxide and a nickel oxide, a conducting agent, and an alkaline electrolytic solution (A) containing potassium hydroxide; a separator;

a negative mixture comprising zinc alloy powder, a gelling agent, and an alkaline electrolytic solution (B) containing potassium hydroxide; and

an alkaline electrolytic solution (C) comprising potassium hydroxide,

wherein the alkaline electrolytic solution (C) is injected into the outer package body during assembly of the battery so as to be absorbed by the separator,

concentrations of potassium hydroxide of the alkaline electrolytic solutions (A), (B), and (C) are adjusted so that the concentrations of potassium hydroxide of the alkaline electrolytic solutions (A), (B), and (C) after assembly of the battery are 30 to 37wt% on average, and

the zinc alloy powder contains zinc alloy powder that passes through a 200-mesh sieve in a ratio of 4 to 40wt% with respect to a total weight of the zinc alloy powder.

36. (Withdrawn) The alkaline battery according to claim 35, wherein the concentrations of potassium hydroxide of the alkaline electrolytic solutions (A), (B), and (C) are adjusted so that the concentrations of potassium hydroxide of the alkaline electrolytic solutions (A), (B), and (C) after assembly of the battery are 33.5 to 37wt% on average.

37. (Withdrawn) The alkaline battery according to claim 35, wherein the concentration of potassium hydroxide of the alkaline electrolytic solution (C) is 20 to 40wt%.

38. (Withdrawn) The alkaline battery according to claim 35, wherein at least one selected from the alkaline electrolytic solutions (A), (B), and (C) comprises a zinc compound.

39. (Withdrawn) The alkaline battery according to claim 35, wherein the zinc alloy powder contains indium, bismuth, and aluminum.

40. (Withdrawn) The alkaline battery according to claim 39, wherein contents of indium, bismuth, and aluminum comprised in the zinc alloy powder are 0.03 to 0.07wt%, 0.007 to 0.025wt%, and 0.001 to 0.004wt%, respectively.

41. (Withdrawn) An alkaline battery produced by sealing in an outer package body: a positive mixture comprising at least one selected from a manganese dioxide and a nickel oxide, a conducting agent, and an alkaline electrolytic solution (A) containing potassium hydroxide;

a separator; and

a negative mixture comprising zinc alloy powder, a gelling agent, and an alkaline electrolytic solution (B) containing potassium hydroxide, wherein the conducting agent is graphite,

a ratio of the graphite is 6 to 8.5 parts by weight with respect to 100 parts by weight of a total weight of the manganese dioxide and the nickel oxide, and

a ratio of zinc alloy powder that passes through a 200-mesh sieve is 4 to 40wt% with respect to a total weight of the zinc alloy powder.

42. (Withdrawn) The alkaline battery according to claim 41, wherein at least one selected from the alkaline electrolytic solution (A) and the alkaline electrolytic solution (B) comprises a zinc compound.

43. (Withdrawn) The alkaline battery according to claim 41, wherein the zinc alloy powder contains indium, bismuth, and aluminum.

44. (Withdrawn) The alkaline battery according to claim 43, wherein contents of indium, bismuth, and aluminum comprised in the zinc alloy powder are 0.03 to 0.07wt%, 0.007 to 0.025wt%, and 0.001 to 0.004wt%, respectively.